

(FILE 'HOME' ENTERED AT 16:29:53 ON 03 JUN 2004)

FILE 'CAPLUS, USPATFULL, CA, CAOLD' ENTERED AT 16:30:10 ON 03 JUN 2004

FILE 'REGISTRY' ENTERED AT 16:30:17 ON 03 JUN 2004

L1 3 S CHROMIUM OXIDE/CN
L2 1 S CHROMIUM TRIOXIDE/CN
L3 1 S CHROMIUM SESQUIOXIDE/CN

FILE 'CAPLUS, USPATFULL, CA, CAOLD' ENTERED AT 16:32:06 ON 03 JUN 2004

L4 72176 S L2 OR L3
L5 2807 S L4 AND AMMONIUM
L6 1197 S L5 AND CATALYST
L7 292 S L4 (S) AMMONIUM
L8 16 S L7 AND AMMONIUM SALT
L9 8 DUP REM L8 (8 DUPLICATES REMOVED)
L10 1535 S CHROMIUM (S) AMMONIUM (S) CATALYST
L11 393 S L10 AND AMMONIUM SALT
L12 380 S L11 AND ?OXIDE?
L13 27 S L12 AND ?FLUORINAT?
L14 25 S L13 NOT L8
L15 25 DUP REM L14 (0 DUPLICATES REMOVED)
L16 29334 S CHROMIUM/CLM
L17 0 S CHROMIUM/CLMS
L18 193379 S CHROMIUM/TI
L19 51423 S AMMONIUM/CLM
L20 1792 S L16 AND L19
L21 169403 S OXIDE/CLM
L22 832 S L20 AND L21
L23 90522 S CATALYST/CLM
L24 282 S L22 AND L23
L25 176480 S SALT/CLM
L26 126 S L24 AND L25
L27 12057 S AMMONIUM SALT/CLM
L28 47 S L26 AND L27
L29 46 S L28 NOT L15
L30 46 S L29 NOT L8
L31 46 DUP REM L30 (0 DUPLICATES REMOVED)
L32 1695 S CHROMIUM (P) AMMONIUM (P) CATALYST
L33 13 S CHROMIUM OXIDE (P) AMMONIUM SALT (P) CATALYST
L34 11 S L33 NOT L8
L35 11 DUP REM L34 (0 DUPLICATES REMOVED)

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L35 ANSWER 6 OF 11 USPATFULL on STN

AN 83:34173 USPATFULL
TI Solubilized chromium salt in particulate support
IN Hawley, Gil R., Bartlesville, OK, United States
McDaniel, Max P., Bartlesville, OK, United States
PA Phillips Petroleum Company, Bartlesville, OK, United States (U.S. corporation)
PI US 4397766 19830809
AI US 1982-342874 19820126 (6)
DCD 19990608
RLI Division of Ser. No. US 1979-103686, filed on 14 Dec 1979, now patented, Pat. No. US 4333860
DT Utility
FS Granted
EXNAM Primary Examiner: Shine, W. J.
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 377

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A chromium salt such as ammonium chromate or ammonium dichromate, which is normally insoluble in nonaqueous solvents which do not easily rehydrate the silica surface is solubilized, for instance by treating it with a crown ether, and impregnated onto a particulate support from a nonaqueous solvent which does not easily rehydrate the silica. The resulting composition is then activated in an oxygen ambient such as air in a conventional manner and then utilized as a catalyst for polymerization reactions such as the production of polyolefins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 9 OF 11 USPATFULL on STN

AN 82:27797 USPATFULL
TI Solubilized chromium salt in polymerization catalyst
IN Hawley, Gil R., Bartlesville, OK, United States
McDaniel, Max P., Bartlesville, OK, United States
PA Phillips Petroleum Company, Bartlesville, OK, United States (U.S. corporation)
PI US 4333860 19820608
AI US 1979-103686 19791214 (6)
DT Utility
FS Granted
EXNAM Primary Examiner: Peters, G. O.
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 385

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A chromium salt such as ammonium chromate or ammonium dichromate, which is normally insoluble in nonaqueous solvents which do not easily rehydrate the silica surface is solubilized, for instance by treating it with a crown ether, and impregnated onto a particulate support from a nonaqueous solvent which does not easily rehydrate the silica. The resulting composition is then activated in an oxygen ambient such as air in a conventional manner and then utilized as a catalyst for polymerization reactions such as the production of polyolefins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 7 OF 11 USPATFULL on STN

AN 83:1892 USPATFULL
TI Solubilized chromium salt in polymerization catalyst
IN Hawley, Gil R., Bartlesville, OK, United States

McDaniel, Max P., Bartlesville, OK, United States
PA Phillips Petroleum Company, Bartlesville, OK, United States (U.S.
corporation)
PI US 4368301 19830111
AI US 1981-297455 19810828 (6)
RLI Division of Ser. No. US 1979-103686, filed on 14 Dec 1979, now patented,
Pat. No. US 4333860
DT Utility
FS Granted
EXNAM Primary Examiner: Levin, Stanford M.
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 387
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A chromium salt such as ammonium chromate or ammonium dichromate, which
is normally insoluble in nonaqueous solvents which do not easily
rehydrate the silica surface is solubilized, for instance by treating it
with a crown ether, and impregnated onto a particulate support from a
nonaqueous solvent which does not easily rehydrate the silica. The
resulting composition is then activated in an oxygen ambient such as air
in a conventional manner and then utilized as a catalyst for
polymerization reactions such as the production of polyolefins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 10 OF 11 USPATFULL on STN
AN 76:20138 USPATFULL
TI Catalyst support formed by adding acidic material to silica containing
titanium
IN Witt, Donald R., Bartlesville, OK, United States
PA Phillips Petroleum Company, Bartlesville, OK, United States (U.S.
corporation)
PI US 3950316 19760413
AI US 1974-466691 19740503 (5)
DT Utility
FS Granted
EXNAM Primary Examiner: Holler, Alan
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 355
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Olefin polymers are made using a chromium oxide catalyst on a support
formed by adding an acidic material to a silicate solution containing
titanium. This catalyst is capable of producing a polymer of an olefin
having a high melt index and is of particular utility in the production
of such polymer in a particle-form process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 11 OF 11 USPATFULL on STN
AN 76:6264 USPATFULL
TI Process for preparing unsaturated aldehyde having three to four carbon
atoms
IN Oda, Yoshio, Yokohama, Japan
Uchida, Keiichi, Yokohama, Japan
Suhara, Manabu, Tokyo, Japan
Morimoto, Takeshi, Yokohama, Japan
PA Asahi Glass Company, Ltd., Tokyo, Japan (non-U.S. corporation)
PI US 3936505 19760203
AI US 1973-334727 19730222 (5)
PRAI JP 1972-17653 19720222
JP 1972-35725 19720411

JP 1972-37800 19720417

DT Utility
FS Granted
EXNAM Primary Examiner: Thomas, Jr., James O.; Assistant Examiner: Chan, Nicky
LREP Oblon, Fisher, Spivak, McClelland & Maier
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 929

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An unsaturated aldehyde having three to four carbon atoms is prepared by reacting the corresponding olefin with molecular oxygen in the vapor phase at a temperature of from 350° to 520° C in the presence of a metal oxide catalyst comprising the metallic components: (a) molybdenum; (b) at least one metal selected from the group consisting of niobium and tantalum; and (c) at least one metal selected from the group consisting of tellurium, bismuth, cobalt, tungsten, indium, and titanium.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.